

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number
WO 2005/042918 A1

(51) International Patent Classification⁷: E21B 33/13

(21) International Application Number:
PCT/GB2004/004476

(22) International Filing Date: 22 October 2004 (22.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0324823.4 24 October 2003 (24.10.2003) GB

(71) Applicant and

(72) Inventor: HEAD, Philip [GB/GB]; Gibb House, Kennel Ride, Ascot, Berks SL5 7NT (GB).

(74) Agent: HILLGATE PATENT SERVICES; 6 Aztec Row, Islington, London N1 0PW (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

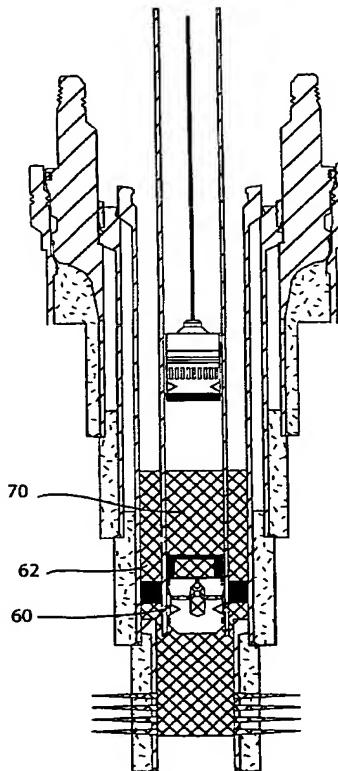
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: A METHOD OF ABANDONING A WELL



(57) Abstract: A method of abandoning a well, said well comprising at least two concentric conduits (28,30) defining a main bore and at least one annular chamber (40) there between, comprising the steps of providing a perforation in one or more of the conduits, pumping out the fluid from the annular chamber and/or main bore to create a fluid-free void, inserting sealing material in the annular chamber and/or main bore to seal it/ them. There is also provided an apparatus for abandoning a well having at least two concentric conduits defining at least one annular chamber there between, the apparatus including a pump (50) and a perforation forming device (42).

WO 2005/042918 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.